

Name: Class:

Multiply decimals by powers of ten

1. Multiply the following decimal numbers using the index method.

a. $6.692 \times 10 =$

d. $23.92 \times 10 =$

b. $357.4392 \times 1,000 =$

e. $4.00892 \times 1,000 =$

c. $77.103 \times 100 =$

f. $12.25 \times 10 =$

2. In each case, tick the correct answer.

a. What will be the answer after multiplying **43.2963** by **1,000**?

43,296.3

4,329.63

43.2963

43,269.3

b. What will be the answer after multiplying **199.24105** by **10**?

199,241.05

19,924.105

1,992,4105

1,992.4105

2.153721

c. What will be the answer after multiplying **79.20512** by **10**?

792,512

792.052

792.00512

792.0512

792.0512

d. What will be the answer after multiplying **370.0023** by **10,000**?

3,700.023

3,700,023

0.3700023

370.023

3,700.02

Name: Class:

Multiply decimals by powers of ten

1. Multiply the following decimal numbers using the index method.

a. $6.692 \times 10 = 6.692 \times 10^1$
 $= 66.92$

d. $23.92 \times 10 = 23.92 \times 10^1$
 $= 239.2$

b. $357.4392 \times 1,000 = 357.4392 \times 10^3$
 $= 357,439.2$

e. $4.00892 \times 1,000 = 4.00892 \times 10^3$
 $= 4,008.92$

c. $77.103 \times 100 = 77.103 \times 10^2$
 $= 7,710.3$

f. $12.25 \times 10 = 12.25 \times 10^1$
 $= 122.5$

2. In each case, tick the correct answer.

a. What will be the answer after multiplying 43.2963 by 1,000?

- 43,296.3 4,329.63 43.2963 43,269.3

b. What will be the answer after multiplying 199.24105 by 10?

- 199,241.05 19,924.105 1,992,4105 1,992.4105 2.153721

c. What will be the answer after multiplying 79.20512 by 10?

- 792,512 792.052 792.00512 792.0512 792.0512

d. What will be the answer after multiplying 370.0023 by 10,000?

- 3,700.023 3,700,023 0.3700023 370.023 3,700.02